

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/002756 A2**

(51) International Patent Classification<sup>7</sup>: **B22D 11/06**,  
11/103

Caprera, 7, I-33100 UDINE (IT). DE LUCA, Andrea  
[IT/IT]; Via Candotti, 61, I-33047 REMANZACCO (IT).

(21) International Application Number:  
PCT/EP2004/051339

(74) Agent: GERVASI, Gemma; NOTARBARTOLO & GER-  
VASI S.p.A., Corso di Porta Vittoria 9, I-20122 MILAN  
(IT).

(22) International Filing Date: 2 July 2004 (02.07.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
MI2003A 001356 2 July 2003 (02.07.2003) IT

(71) Applicant (*for all designated States except US*): DANIELI  
& C. OFFICINE MECCANICHE S.P.A. [IT/IT]; Via  
Nazionale 41, I-33042 BUTTRIO (IT).

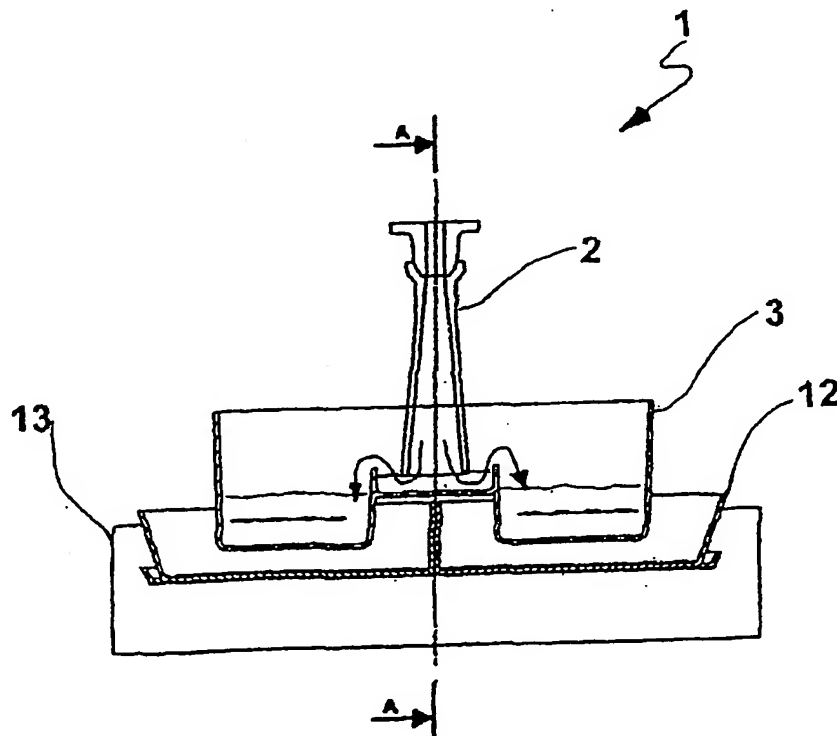
(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): POLONI, Al-  
fredo [IT/IT]; Via G. Paolini 29, I-34070 FOGLIANO  
REDIPUGLIA (IT). KAPAJ, Nuredin [AL/IT]; Via

[Continued on next page]

(54) Title: A FEED DEVICE FOR FEEDING MOLTEN METAL INTO A CRYSTALLIZER



(57) Abstract: A drop feeder (1) for feeding molten metal into an ingot mould (15) comprises a distributor (3) having a substantially prismatic shape, with one of the faces open, in which the inside of the distributor comprises three tanks (4, 5, 6), separated by walls (7, 8) functioning as weir for the molten melt poured into the intermediate tank (5). There are provided slots (10) arranged on the faces of the distributor (3) for emptying of the molten metal from the distributor into the ingot mould or into a second distributor.

WO 2005/002756 A2



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *without international search report and to be republished upon receipt of that report*